

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Christina A. Forgacs

General Information

Name:	Louisville Gas and Electric Company - Trimble County Station
Address:	Trimble County, 487 Corn Creek Road, (Wises Landing) Bedford, Kentucky 40006
Date application received:	October 14, 1996
SIC/Source description:	4911/Electric Power Generation
AFS(10-digit) Plant ID:	21-223-00002
EIS #:	104-3880-0002
Finds #:	KYD991277096
Application log number:	E720
Permit number:	V-97-024

Application Type/Permit Activity

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
___Administrative	<input checked="" type="checkbox"/> Title V
___Minor	<input type="checkbox"/> Synthetic minor
___Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

Applicable Requirements list

<input checked="" type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other

Miscellaneous

☒ Acid rain source
☒ Source may be subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☒ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Class I area impacts
☐ Area is non-attainment for:

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM ₁₀	858	2741
SO ₂	19454	19662
NOx	14824	14824
CO	523	523
VOC	63	63
LEAD	0.43	0.43
HAP \geq 10 tpy (by CAS)		
HCI (7647-01-0)	115	115
HF (7664-39-3)	15	15

Source Process Description:

Louisville Gas and Electric Company operates to generate electricity (power) by use of a coal-fired steam generating indirect heat exchanger. Generators convert the energy from the steam into electricity. Main support operations at the plant include coal handling operations, ash handling, and lime/limestone handling operations. The lime/limestone is used in scrubbing operations to control sulfur dioxide emissions.

Operating Caps Description:

Three 11.76 MMBTU/hr boilers are limited in #2 fuel oil annual usage and fuel oil sulfur content in order to preclude Regulation 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. These boilers were previously permitted under O-92-030.

Operational Flexibility:

The permit is written to allow up to 40 percent co-firing of petroleum coke with coal in the main boiler. Note that use of #2 fuel oil in the main boiler is permitted for startups and flame stabilization.